#### STATEMENT OF BASIS

as required by LAC 33:IX.3109, for draft Louisiana Pollutant Discharge Elimination System Permit No. LA0110485; AI 41656; PER20060001 to discharge to waters of the State of Louisiana as per LAC 33:IX.2311.

The permitting authority for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality

Office of Environmental Services

P. O. Box 4313

Baton Rouge, Louisiana 70821-4313

I. THE APPLICANT IS:

Greater Ouachita Water Company, Inc.

NE Regional Wastewater Treatment Facility

P.O. Box 2867 Monroe, LA 71207

II. PREPARED BY:

Ronda Burtch

DATE PREPARED:

April 10, 2007

III. PERMIT ACTION:

reissue LPDES permit <u>LA0110485</u>, AI <u>41656</u>; <u>PER20060001</u>

LPDES application received: March 2, 2006

LPDES permit issued: September 1, 2001 LPDES permit modified: February 28, 2002 LPDES permit expired: August 31, 2006

#### IV. FACILITY INFORMATION:

- A. The application is for the discharge of treated sanitary wastewater from a privately owned treatment works serving various residential subdivisions in rural areas of NE Quachita Parish located east of Bayou DeSiard, south of Swartz, north of US Hwy. 80, and west of LA Hwy. 594 (Love Road).
- B. The permit application does not indicate the receipt of industrial wastewater.
- C. The facility is located approximately 400 feet west of the end of McGowen Road, off LA Hwy. 594 in Monroe, Ouachita Parish.
- D. The treatment facility consists of three (3) aerated lagoons, two (2) clarifiers, one (1) facultative lagoon, and two (2) sand filters. Disinfection is by chlorination.

### E. Outfall 001

Discharge Location:

Latitude 32° 33' 43" North Longitude 92° 0' 0" West

Description:

treated sanitary wastewater

Expected Flow:

984 homes  $\times$  400 gallons/day/home = 0.3936 MGD

Calculations for gallons per day were based upon figures obtained from Chapter 15 of the State of Louisiana Sanitary Code, Department of Health and Hospitals, Office of Public Health.

Type of Flow Measurement which the facility is currently using:

Totalizing Meter

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## V. RECEIVING WATERS:

The discharge is into Caney Creek, thence into Patrick Bayou, thence into Bayou Lafourche in segment 080904 of the Ouachita River Basin. This segment is not listed on the 303(d) list of impaired waterbodies.

The designated uses and degree of support for Segment 080904 of the Ouachita River Basin are as indicated in the table below<sup>1/</sup>:

Overall Degree of Support for Segment	Degree of Support of Each Use						
080904		,	1				
Partial	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
	Full	Full	Not Supported	N/A	N/A	N/A	N/A

<sup>&</sup>lt;sup>1</sup>/The designated uses and degree of support for Segment 080904 of the Ouachita River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2004 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

# VI. <u>ENDANGERED SPECIES:</u>

The receiving waterbody, Subsegment 080904 of the Ouachita River Basin, is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U. S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated September 29, 2006 from Watson (FWS) to Brown (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

### VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the 'Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits' no consultation with the Louisiana State Historic Preservation Officer is required.

#### VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit modification and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

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Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

For additional information, contact:

Ms. Ronda Burtch
Permits Division
Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

## IX. PROPOSED PERMIT LIMITS:

Subsegment 080904, Bayou Lafourche - Near Oakridge to Boeuf River near Columbia, is not listed on LDEQ's Final 2004 303(d) List as impaired. However subsegment 080904 was previously listed as impaired for organic enrichment/low DO, priority organics (including Dioxins), suspended solids/turbidity, and phosphorus, for which the below TMDLs have been developed. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving waterbodies based upon additional TMDLs and/or water quality studies. The DEQ also reserves the right to modify or revoke and reissue this permit based upon ay changes to established TMDLs for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as necessary to achieve compliance with water quality standards.

#### Bayou Lafourche TMDLs for Dissolved Oxygen and Nutrients

Per the TMDL, "In order to maintain the DO standard of 5.0 mg/L throughout the subsegment, nonpoint source loads will need to be reduced 81%, and treatment upgrades will be required for some of the point sources. The NE Regional Wastewater Treatment Facility was not included in the point sources required to upgrade their facilities. Therefore, limitations will remain as previously permitted.

<u>Dioxin TMDL for Tisdale Brake, Staulkinghead Creek, Little Bayou Beouf, Wham Brake, and Bayou Lafourche</u>

The only identified point source pollutant loading of Dioxin is the discharge into Staulkinghead Creek from IP's Louisiana mill (NPDES permit number LA0007561) outfall 001. Therefore, limitations for priority pollutants (including Dioxins) will not be required of this facility.

TMDL for TSS, Turbidity and Siltation for 13 Subsegments in the Ouachita River Basin

As per TMDL, "Point sources do not represent a significant source of TSS as defined in this TMDL. Because an enforceable mechanism is in place to protect from discharges of organic suspended solids no TMDL is required for these materials." Therefore, TSS limits will remain as previously permitted.

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#### Final Effluent Limits:

#### **OUTFALL 001**

Final limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
CBOD₅	33	10 mg/l	15 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy for facilities of this size and the previous permit.
TSS	49	15 mg/l	23 mg/l	TSS effluent limitations are set through Best Professional Judgement for the type of treatment technology utilized at this facility and in accordance with the Statewide Sanitary Effluent Limitations Policy for facilities of this size and the previous permit.
Ammonia- Nitrogen	16	5 mg/l	10 mg/l	The previous permit contained NH3-N limits of 5/10 mg/l (monthly/weekly average). The NH3-N limits are being continued through Best Professional Judgement for added protection of the waterbody and in accordance with the previous permit.

#### Other Effluent Limitations:

### 1) Fecal Coliform

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.b.i, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgement in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

# 2) pH

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time. (Limits as established through BPJ considering BCT for similar waste streams in accordance with LAC 33:IX.5905.C.).

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#### 3) Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:1X.1113.B.7.

### X. PREVIOUS PERMITS:

LPDES Permit No. LA0110485: Issued: September 1, 2001

Modified: February 28, 2002 Expired: August 31, 2006

Effluent Characteristic	Discharge Lir	mitations	Monitoring Requirements	
	Daily Avg.	Daily Max.	Measurement	Sample
		<del></del>	Frequency	Type
Flow	Report	Report	Continuous	Recorder
CBOD <sub>5</sub>	10 mg/l	15 mg/i	2/month	Grab
TSS	15 mg/l	23 mg/l	2/month	Grab
Ammonia-Nitrogen	5 mg/l	10 mg/l	2/month	Grab
Fecal Coliform Colonies	200	400	2/month	Grab

# XI. <u>ENFORCEMENT AND SURVEILLANCE ACTIONS:</u>

# A) Inspections

A review of the files indicates the following inspection was performed during the period beginning March 28, 2005 and ending March 28, 2007 for this facility.

Date: May 31, 2006 Inspector: LDEQ

Findings and/or Violations:

- 1. Unauthorized discharge of approximately 20,000 gallons of sewage. Permittee failed to notify LDEQ of the sewage bypass within 24 hrs.
- 2. Sewage was observed flowing in ditch at junction of Stubbs Vinson and the RR track at 0845 hrs. on 5-31-06. Origin was located at 0900 hrs. from a storm drain near a manhole at Whipporwill & Quail Ridge Drive in Audubon Park subdivision. Greater Ouachita Water Co. Inc. was notified. An employee arrived at 1000 hrs. and found the Fawn Hollow Drive lift station had been hit by lightning and was off. It was restarted and the sewage flow stopped at the storm drain at 1010 hrs.
- 3. The rainstorm which caused the lift station failure was believed to have occurred during the evening hours of 5-29-06. Another rainstorm occurred about 1700 hrs. on 5-30-06 but LDEQ received prior notification about the dark-colored water in the ditch at 1630 hrs. the same day.
- 4. Cleanup occurred through the afternoon hours of 5-31-06 with 5,000 gallons being removed from the RR ditch and taken to the NE Pond off McGowen Road before a rainstorm arrived an aided in flushing the sewage away. The ditch was later flushed with a hydrant and disinfectant added. A site visit on the morning of 6-1-06 revealed the sewage was gone and disinfectant added. The total sewage discharged was calculated at approx. 20,000 gallons with 5,000 of that being recovered.

### B) Compliance and/or Administrative Orders

A review of the files indicates that no recent enforcement actions have been administered against this facility.

### C) DMR Review

A review of the discharge monitoring reports for the period beginning January 1, 2005 through December 31, 2006 has revealed the following violations:

Month	Parameter	DMR Reported Value	Permit Limit
May 2005	TSS, Weekly Avg.	27 mg/l	23 mg/l
February 2006	TSS, Monthly Loading	91.1 lbs/day	49 lbs/day
March 2006	TSS, Weekly Avg.	21.8 mg/l	23 mg/l

# XII. ADDITIONAL INFORMATION:

The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional water quality studies and/or TMDL's. The DEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as requested by the permittee and/or as necessary to achieve compliance with water quality standards. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

Final effluent loadings (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of 0.3936 MGD.

Effluent loadings are calculated using the following example:

CBOD: 8.34 lb/gal x 0.3936 MGD x 10 mg/l = 33 lb/day

At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** as shown in the permit are standard for facilities of flows between 0.10 and 0.50 MGD.

Effluent Characteristics	<b>Monitoring Requirements</b>		
	Measurement	<u>Sample</u>	
	Frequency	<u>Type</u>	
Flow	Continuous	Recorder	
CBOD₅	2/month	Grab	
Total Suspended Solids	2/month	Grab	
Ammonia-Nitrogen	2/month	Grab	
Fecal Coliform Bacteria	2/month	Grab	

#### XIII TENTATIVE DETERMINATION:

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in this Statement of Basis.

## XIV REFERENCES:

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2005.

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report," Louisiana Department of Environmental Quality, 1998.

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<u>Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards,"</u> Louisiana Department of Environmental Quality, 2004.

<u>Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program,"</u> Louisiana Department of Environmental Quality, 2004.

<u>Low-Flow Characteristics of Louisiana Streams</u>, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

<u>LPDES Permit Application to Discharge Wastewater</u>, Greater Ouachita Water Company, Inc., NE Regional Wastewater Treatment Facility, March 2, 2006.